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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/531,786

04/18/2005

Martin J. Weinstein

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EXAMINER

MENON, KRISHNAN S

ART UNIT

PAPER NUMBER

1797

MAIL DATE

DELIVERY MODE

09/08/2008

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/531,786	<b>Applicant(s)</b> WEINSTEIN ET AL.	
	<b>Examiner</b> Krishnan S. Menon	<b>Art Unit</b> 1797	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 27 August 2008.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 11-19 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 11-19 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## DETAILED ACTION

Claims 11-19 are pending as amended 4/9/08

### ***Claim Rejections - 35 USC § 102***

Claims 11 and 14-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Friedman (US 4,715,955).

Friedman teaches the claimed invention – see figs 4,6 and 7 and excerpts copied below:

*“As shown in the modified embodiment of FIG. 6, for example, an end plate 61 is provided with a feed channel 62 having five transverse portions 63, a retentate channel 64 having five transverse portions 65, and a pair of filtrate channels 66, 67 each having four transverse portions 68. The end plate 61 would be used in the same manner as described above for the end plate 13 but would accommodate an ultrafiltration module (not shown) having five feed passages, five retentate passages, and eight filtrate passages. An additional modification in the end plate 61 is that ends of the feed and retentate channels 62 and 64, respectively, terminate in ports 71 and 72 in one side wall 73 of the end plate 61 while the filtrate channels 66 and 67 terminate, respectively, in outlet ports 75 and 76 in an opposite end wall 77 of the end plate 61. Use of the end plate 61 would be desirable when fluid handling equipment would be most easily positioned on opposite sides of the ultrafiltration apparatus.” (column 5, lines 38-57)*

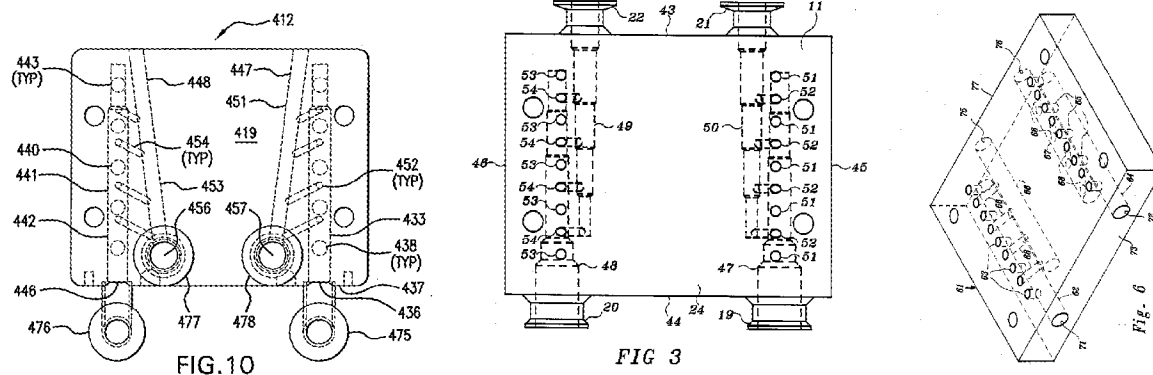
and,

*“As shown in FIG. 4, the transverse filtrate channel portions 52, 54 from acute angles with an upper surface 55 of the end plate 13. Outer ends of the longitudinal filtrate channel portions 51, 53 terminate, respectively, with outlet ports 56, 57 in the sidewall 37 of the end plate 13.” (Column 4, lines 19-24)*

Flow paths are as claimed; "pressurized fluid" is not a patentable limitation in the apparatus claims.

### ***Claim Rejections - 35 USC § 103***

Claims 11-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Latour et al (US 4,849,102) and/or Friedman (US 4,715,955).



Applicant's figure 10, assumed to be best representing the claims in comparison with figure 5 of Latour and figure 6 of Friedman.

Friedman teaches a filtration housing with an end plate having parallel feed and retentate channels, and filtrate channels, wherein the filtrate channels have transverse portions, the transverse portions forming acute angles with the upper surface of the end plate. See fig 6 above, as well as fig 4 of the reference. Particularly, this reference teaches:

*"As shown in FIG. 4, the transverse filtrate channel portions 52, 54 form acute angles with an upper surface 55 of the end plate 13. Outer ends of the longitudinal filtrate*

*channel portions 51, 53 terminate, respectively, with outlet ports 56, 57 in the sidewall 37 of the end plate 13.”* (Column 4, lines 19-24)

Latour teaches a filtration housing and cassette assembly (12, see figures), in which the housing comprises first and second parallel plates (11,13,14), plate 11 having feed inlet (19) and retentate outlet (20) channels at opposite edges, and filtrate channels (21,22) having first portions (49,50) and second transverse portions (connecting 49 to 54 and 50 to 52) as claimed. These channels communicate with the respective feed, retentate and filtrate channels of the cassettes. The plates are movable on frames to change the number of cassettes loaded as desired.

The teaching of the reference differs from the claims in the ‘acute’ orientation of the transverse filtrate channels with respect to an upper surface of the first end plate. Friedman teaches the transverse filtrate channels as being at an acute angle with a face of the end plate, but this does not appear to be the “upper surface” as claimed. The [first] plate (11) of Latour is also a central plate (communication to the filter cassettes from both major surfaces), whereas the applicant depicts it as an end plate (communication to the cassettes only from one major surface). Latour refers to Friedman and teaches his design as an improvement over that of Friedman, who has the plate with inlet and outlet channels at and end. However, the “acute” orientation of the transverse filtrate channel is only an obvious design change in shape and/or orientation, which one of ordinary skill in the art is capable of; and are not patentable unless can be shown otherwise. Changes of size, shape, etc without special functional significance are not patentable. *Research Corp. v. Nasco Industries, Inc.*, 501 F2d 358; 182 USPQ 449 (CA 7), cert. denied 184 USPQ 193; 43 USLW 3359 (1974). Applicant

has not demonstrated any criticality of having the acute angles in the transverse filtrate channels to overcome a prima facie case of obviousness.

### ***Response to Arguments***

Applicant's arguments filed 8/27/08 have been fully considered but they are not persuasive.

Most of the claims are now anticipated by the Friedman reference.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Krishnan S. Menon whose telephone number is 571-272-1143. The examiner can normally be reached on 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David R. Sample can be reached on 571-272-1376. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1797

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Krishnan S Menon/  
Primary Examiner, Art Unit 1797